

ORIGINAL COURSE IMPLEMENTATION DATE: September 2009
REVISED COURSE IMPLEMENTATION DATE: January 2020
COURSE TO BE REVIEWED (six years after UEC approval): September 2025

Course outline form version: 05/18/2018

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

Course Code and Number: MATH 053	Number of Credits: 1.5 Course credit policy (105)					
Course Full Title: Fundamental Math II Course Short Title:						
Faculty: Faculty of Access and Continuing E	Department (or program if no department): Upgrading and University Preparation					
Calendar Description:						
The second of four fundamental math levels. Introduces operations on fractions and decimals, and covers estimation, measurement, and problem solving.						
Prerequisites (or NONE):	UUP Depa	rtment permissi	on (asses	sment may be required)		
Corequisites (if applicable, or NONE):	None					
Pre/corequisites (if applicable, or NONE):	None					
Antirequisite Courses (Cannot be taken for additional credit.) Former course code/number: MATH 051 Cross-listed with: Dual-listed with:			Special Topics (Double-click on boxes to select.) This course is offered with different topics: ☑ No ☐ Yes (If yes, topic will be recorded when offered.)			
Equivalent course(s): (If offered in the previous five years, antirequisite course(s) will be included in the calendar description as a note that students with for the antirequisite course(s) cannot take this course for further			Independent Study If offered as an Independent Study course, this course may be repeated for further credit: (If yes, topic will be recorded.) □ No □ Yes, repeat(s) □ Yes, no limit Transfer Credit Transfer credit already exists: (See bctransferguide.ca.)			
Typical Structure of Instructional Hours						
Lecture/seminar hours		45	⊠ No	⊠ No □ Yes		
Tutorials/workshops				Submit outline for (re)articulation:		
Supervised laboratory hours			☑ No ☐ Yes (If yes, fill in transfer credit form.)Grading System		nsfer credit form.)	
Experiential (field experience, practicum, internship, etc.)				
Supervised online activities			□ Credit/No Credit			
Other contact hours:			Maximi	um enrolment (for infor	mation only): 24	
	s 45	Expected Frequency of Course Offerings:				
Labs to be scheduled independent of lecture hours: $\ igtimes$ No $\ igcap$ Yes			Every semester			
Department / Program Head or Director: Greg St Hilaire				Date approved:	March 1, 2019	
Faculty Council approval				Date approved:	March 8, 2019	
Dean/Associate VP: Dr. Sue Brigden				Date approved:	March 8, 2019	
Campus-Wide Consultation (CWC)				Date of posting:	June 21, 2019	
Undergraduate Education Committee (UEC) approval				Date of meeting:	September 27, 2019	

Learning Outcomes:

Upon successful completion of this course, students will be able to:

Common Fractions

- 1. Define key words such as product, reciprocal, prime and composite.
- 2. Perform prime factorization of a number.
- 3. Find the greatest common factor and the least common multiple of a group of numbers.
- 4. Identify proper and improper fractions, mixed numbers, and equivalent fractions.
- 5. Simplify common fractions.
- 6. Write equivalent fractions.
- 7. Multiply and divide common fractions.
- 8. Estimate answers to a variety of multiply/divide common fraction problems.

Decimal Fractions

- 1. Read and write decimal fractions to the ten-thousandths place value.
- Compare decimal fraction values.
- 3. Round whole numbers and decimal fractions to any given place value.
- 4. Add, subtract, multiply and divide decimal numbers.
- 5. Relate common fractions to decimal numbers.
- 6. Convert between common fractions and decimal fractions.
- 7. Solve word problems involving decimal fractions, common fractions, or mixed numbers.
- 8. Estimate answers to a variety of decimal fraction problems.

After completion of MATH 053, students will meet the outcomes as described in the Adult Literacy Fundamental Math Levels 4 and 5 in the 2018 – 2019 Adult Basic Education Articulation Guide available at:

https://www2.gov.bc.ca/assets/gov/education/post-secondary-education/adult-education/abe_quide.pdf

	Prior	Learning	Assessment and Recognition	(PLAR)
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Yes	ີ Yes	LAR cannot be awarded for this course because
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Typical Instructional Methods (Guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion.) Methods may include mini-lessons, individual assistance, group activities, assignments, demonstrations, group problem solving, math labs, and computer assisted learning.

NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.

Ty	Typical Text(s) and Resource Materials (If more space is required, download Supplemental Texts and Resource Materials form.)						
	Author (surname, initials)	Title (article, book, journal, etc.)	Current ed.	Publisher	Year		
1.	W. Tagami/L. Girard	Adult Fundamental Literacy Math Books 4 and 5		Creative Commons	2018		
2.	Baratto and Bergman	Prealgebra	\boxtimes	McGraw Hill Education	2014		
3.					_		
4.					_		
5.							

Required Additional Supplies and Materials (Software, hardware, tools, specialized clothing, etc.)

Basic scientific calculator

Typical Evaluation Methods and Weighting

Final exam:	40%	Assignments:	%	Field experience:	%	Portfolio:	%
Midterm exam:	%	Project:	%	Practicum:	%	Other:	%
Quizzes/tests:	60%	Lab work:	%	Shop work:	%	Total:	100%

Details (if necessary):

3 quizzes and 1 final exam.

Typical Course Content and Topics

- Introduction to prime factors and prime factorization
- Fractional operations
- Decimal operations